A-C® Polyethylene Homopolymers (Developmental)

000000013633

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	A-C® Polyethylene Homopolymers (Developmental)
MSDS Number	:	000000013633
Product Use Description	:	Polymer
Manufacturer or supplier's details	:	Honeywell International Inc. 101 Columbia Road Morristown, NJ 07962-1057
For more information call	:	1-888 245-4738 +1-973-455-2145 (Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
	:	
	:	(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	:	powder
Color	:	white
Odor	:	slight

Classification of the substance or mixture

Classification of the substance or mixture	:	Combustible dust

GHS Label elements, including precautionary statements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Substance

Chemical Name	CAS-No.	Concentration
Ethene, homopolymer	9002-88-4	100.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. Call a physician if irritation develops or persists.

Skin contact : Wash off with soap and water. Call a physician if irritation develops or persists. Cool skin rapidly with cold water after contact with molten material. Do not peel solidified product off the skin. Call a physician immediately.

Eye contact : Rinse with plenty of water. Call a physician if irritation develops or persists.

Ingestion : Unlikely route of exposure. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician if necessary.

Notes to physician

Treatment : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist Dry chemical Carbon dioxide (CO2) Foam Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	:	Avoid dust formation. Airborne dusts of this product in an enclosed space and in the presence of an ignition source may constitute an explosion hazard. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Static charges on powders or powders in liquids may ignite combustible atmospheres. Watch footing on floors and stairs because of possible spreading of molten material. Material can create slippery conditions. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)
Special protective equipment for firefighters	:	In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear personal protective equipment. Evacuate personnel to safe areas. Provide adequate ventilation. May form explosive dust-air mixture. Avoid dust formation. Accumulations of dust from this product in the workplace may increase the likelihood or severity of an explosion.

Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Eliminate all ignition sources if safe to do so.
Do not swallow.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Environmental precautions : Should not be released into the environment.
Prevent product from entering drains.

Methods for cleaning up : Avoid dust formation and electrical charging (sparking) because dust explosion might occur.
Do not create a powder cloud by using a brush or compressed air.
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Use only non-sparking tools.
For molten product:
If material is molten, allow to cool. Use caution, as material may still be hot after solidification.
Spilled material will solidify.
Allow to solidify.
Scrape up.
Shovel into suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Wear personal protective equipment.
Avoid dust formation.
Floors, walls and other surfaces must be regularly cleaned.
The material can accumulate static charge and can therefore cause electrical ignition.
Static charges on powders or powders in liquids may ignite combustible atmospheres.
Take precautionary measures against static discharges.
Material can create slippery conditions.
Do not swallow.
Avoid breathing dust.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion	:	All combustible solids have the potential to create a dust explosion hazard. The likelihood of an explosion can be dependent upon many factors, such as the explosive characteristics of the material, the design of the facility, and the manner in which the material is handled. A more detailed discussion can be found in NFPA Bulletin 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids."

Storage

Requirements for storage areas and containers	:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from physical damage. Store away from incompatible substances.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Do not swallow. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Engineering measures	:	Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. Provide exhaust ventilation if dust is formed. Use only in an area equipped with explosion proof exhaust ventilation. Electrical equipment should be protected to the appropriate standard. If formation of dust is observed, equipment has to be switched off, cleaned and serviced.
Eye protection	:	Wear as appropriate: Safety glasses with side-shields For molten product: Goggles or face shield, giving complete protection to eyes

Hand protection	:	When handling hot material, use heat resistant gloves.
Skin and body protection	:	Protective suit Wear heat protective clothing for handling hot material.
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use. Keep working clothes separately.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Particulates Not Otherwise Regulated		TWA : time weighted average	10 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Inhalable particles.			

Particulates Not Otherwise Regulated		TWA : time weighted average	3 mg/m3	2008	ACGIH:US. ACGIH Threshold Limit Values
Further information	:	Form of exposure : Respirable particles.			

Particulates Not Otherwise Regulated			PEL : Permissible exposure limit	15 mg/m3 All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	:	Form of exposure : Total dust.				

Particulates Not Otherwise Regulated		PEL : Permissible exposure limit	5 mg/m3 All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	:	Form of exposure : Respirable fraction.			

Particulates Not Otherwise Regulated		TWA : time weighted average	15 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposure : Total dust.			

Particulates Not Otherwise Regulated		TWA : time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	:	Form of exposure : Respirable fraction.			

Particulates Not Otherwise Regulated		TWA : time weighted average	15 mg/m3	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)

Further information	:	Form of exposure : Total dust.

Particulates Not Otherwise Regulated		TWA : time weighted average	5 mg/m3	2000	Z3:US. OSHA Table Z-3 (29 CFR 1910.1000)
Further information	:	Form of exposure : Respirable fraction.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	powder
Color	:	white
Odor	:	slight
pH	:	Note: not applicable
Melting point/freezing point	:	92 - 122 °C
Boiling point/boiling range	:	Note: not determined
Flash point	:	> 446 °F (230 °C) Method: open cup
Lower explosion limit	:	Note: not applicable
Upper explosion limit	:	Note: not applicable
Vapor pressure	:	Note: not applicable
Vapor density	:	Note: not applicable

Density	:	0.88 - 0.97 g/cm3
Water solubility	:	Note: negligible
Ignition temperature	:	Note: not determined

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Hazardous polymerisation does not occur.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation and electrical charging (sparking) because dust explosion might occur. Avoid exposure to temperatures exceeding recommended processing conditions. Honeywell should be contacted if questions arise concerning specific processing conditions.
Incompatible materials to avoid	:	Strong oxidizing agents Amines
Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50: > 2,000 mg/kg Species: rat

SECTION 12. ECOLOGICAL INFORMATION

Further information on ecology

Additional ecological information	:	Bioaccumulation is unlikely. Aquatic toxicity is unlikely due to low solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	:	Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

1907/2006 (EU)	:	On the inventory, or in compliance with the inventory
US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection	:	All components of this product are on the Canadian DSL.

Act (CEPA). Domestic Substances List (DSL)		
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components	:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	:	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	:	No SARA Hazards

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WHMIS Classification : Not Rated
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

		HMIS III	NFPA
Health hazard	:	0	0
Flammability	:	1	1
Physical Hazard	:	0	
Instability	:		0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous

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